

**Maryland Historical Trust**

Maryland Inventory of Historic Properties number:

Name:

The bridge referenced herein was inventoried by the Maryland State Highway Administration as part of the Historic Bridge Inventory, and SHA provided the Trust with eligibility determinations in February 2001. The Trust accepted the Historic Bridge Inventory on April 3, 2001. The bridge received the following determination of eligibility.

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**MARYLAND HISTORICAL TRUST**

Eligibility Recommended     X    

Eligibility Not Recommended

Criteria:   A     B     C     D   Considerations:   A     B     C     D     E     F     G   None

**Comments:**

Reviewer, OPS: Anne E. Bruder

Date: 3 April 2001

Reviewer, NR Program: Peter E. Kurtze

Date: 3 April 2001

**MARYLAND INVENTORY OF HISTORIC PROPERTIES  
HISTORIC BRIDGE INVENTORY  
MARYLAND STATE HIGHWAY ADMINISTRATION  
MARYLAND HISTORICAL TRUST**

**MHT NO. F-1-34**

**NAME AND SHA NO.:** 10014

**LOCATION**

**Road Name and Number:** MD 28 over Tuscarora Creek

**City/Town:** Point of Rocks X vicinity

**County:** Frederick

**Ownership:** X State    County    Municipal    Other

**Bridge projects over:**    Road    Railway X Water    Land

**Is bridge located within designated district?:**    yes X no  
   NR listed district    NR determined eligible district  
   locally designated    other  
Name of District   

**BRIDGE TYPE**

- Timber Bridge  
       Beam Bridge    Truss-Covered    Trestle    Timber-and-Concrete
- Stone Arch Bridge
- Metal Truss Bridge
- Moveable Bridge  
       Swing    Bascule Single Leaf    Bascule Multiple Leaf  
       Vertical Lift    Retractable    Pontoon
- Metal Girder  
       Rolled Girder    Rolled Girder Concrete Encased  
       Plate Girder    Plate Girder Concrete Encased
- Metal Suspension
- Metal Arch
- Metal Cantilever
- X Concrete  
       Concrete Arch    Concrete Slab X Concrete Beam    Rigid Frame  
       Other                      Type Name

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**DESCRIPTION**

**Describe the Setting:**

Bridge 10014 carries MD 28 (Tuscarora Road) over Tuscarora Creek in the southern part of Frederick County near the Virginia border. MD 28 runs in a generally east-west direction at this location; Tuscarora Creek flows north-south. The bridge is situated in a rural setting characterized by a mixture of fields and wooded areas. No buildings are visible from the bridge. Bridge 10014 is located in the Piedmont physiographic province which features variegated topography where the Chesapeake Bay waterways have cut valleys into the hilly terrain.

**Describe the Superstructure and Substructure:  
(Discuss points identified in Context Addendum, Section C)**

Bridge 10014 is a double-span concrete girder bridge with a total length of 51'. Each span measures 23' long and the two-lane roadway is 24' wide with a bituminous concrete surface and 2' shoulders. A steel W-beam guardrail has been attached to the solid concrete parapets which feature five panels, alternating rectangular and square panels, per span.

The superstructure consists of concrete abutments with flared concrete wing walls on the northwest, southwest, and northeast ends and a shorter straight wing wall on the southeast side. A 2' wide concrete pier with a pointed nose upstream supports the middle of the bridge.

Inspection reports indicate that in 1974-1976, the bridge showed signs of cracking and spalling in the wing walls, beams, and abutments. These reports also noted popouts in the girders and fascias, as well as deteriorating drainage devices and build-up in the stream channel. Later inspection reports detail scour at both the east and west abutments, erosion of the east bank and northeast wing wall as a result of the skewed stream channel. The 1994 inspection listed efflorescence, stalactites, spalling, scour at the pier and the northwest wing wall, and silt build-up and erosion. This report also pointed out the severe spalling and separation of the north parapet joint at the pier.

A survey of historic concrete beam bridges undertaken by the Maryland State Highway Administration in the Fall of 1995 identified 113 bridges of that type located throughout the state. Nearly one-quarter (26) of that total were double-span bridges; 37 bridges (33%) were multiple span.

**Discuss major alterations:**

Since the construction of this bridge, there have been no major alterations to the structure.

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**HISTORY**

**When Built:** 1930

**Why Built:** Statewide road improvement programs and local transportation needs

**Who Built:** State Roads Commission of Maryland to 1924 standard specifications

**Who Designed:** Unknown

**Why Altered:** N/A

**Was this bridge built as part of an organized bridge building campaign?:** No

This bridge was built during the Good Roads Movement era but was not one of the primary corridors slated for improvement.

**SURVEYOR ANALYSIS**

**This bridge may have NR significance for association with:**

☐ A (Events)   ☐ B (Person)   ☐ C (Engineering/Architectural Character)

**Was this bridge constructed in response to significant events in Maryland or local history?**

The improvement of Frederick County roads most likely resulted from several events that occurred during the first three decades of the twentieth century. The original Good Roads movement was aimed toward improving the primary routes through the state as well as connecting roads between counties. A later impact of this crusade included the widening, straightening, and grading of secondary roads, and construction of new bridges to carry these rebuilt roads. Further, the rapid increase of automobile, truck, and bus traffic prompted the replacement of the existing narrow and weak bridges with new, wider, and stronger concrete structures. As time, labor, and money-saving plans created by the State Roads Commission (SRC), the establishment of district engineering offices during the 1910s and the development of standardized bridge designs also aided in the construction of modern bridges throughout the state. During the 1920s, emphasis of the SRC was on improving safety and comfort of main routes while building up the secondary roads and the farm-to-market network of feeder roads. By the 1930s, bridges believed to be adequate when initial road reconstruction was undertaken became unacceptable for modern traffic and many new structures were constructed.

**When the bridge was built, and/or given a major alteration, did it have a significant impact on the growth and development of the area?**

No, the construction of this bridge did not play an active role in the growth or development of this portion of Frederick County.

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**Is the bridge located in an area which may be eligible for historic designation, and would the bridge add or detract from the historic and visual character of the possible district?**

No, this bridge is not located within an area which is eligible for historic district designation.

**Is the bridge a significant example of its type?**

Yes, due to its apparent lack of major alterations and fair condition, this bridge stands as a significant example of its type.

**Does the bridge retain integrity of the important elements described in the Context Addendum?**

No, this bridge does not retain integrity of its character defining elements. Recent reports indicate that the structure exhibits severe signs of age and wear, including cracking and spalling of the parapets, abutments, and wing walls, as well as popouts, efflorescence, erosion, and scour that have compromised the integrity of these elements.

**Is the bridge a significant example of the work of the manufacturer, designer, and/or engineer, and why?**

No, this bridge is not a significant example of the work of the manufacturer, designer, and/or engineer. This bridge was most likely built to standard state specifications, which corresponded to the structure's span length and year.

**Should this bridge be given further study before significance analysis is made, and why?**

No, this bridge should not receive further study.

**BIBLIOGRAPHY**

Crosby, Walter Wilson

1906      *First Report on State Highway Construction (May 1905-January 1906).* The Johns Hopkins Press, Baltimore.

1908      *Second Report on State Highway Construction (January 1906-January 1908).* The Johns Hopkins Press, Baltimore.

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**MHT NO. F-1-34**

Johnson, A.N.

1903      *Third Report on the Highways of Maryland (1902-1903)*. The Johns Hopkins Press, Baltimore.

LeViness, Charles T.

1958      *A History of Road Building in Maryland*. State Roads Commission of Maryland, Baltimore.

Maryland State Highway Administration

1987-93      Bridge inspection reports. Located in the files of the Office of Bridge Development, Maryland State Highway Administration, Baltimore.

P.A.C. Spero and Company and Louis Berger and Associates, Inc.

1994      *Historic Bridges in Maryland: Historic Context Report*. Prepared for Maryland State Highway Administration, Maryland State Department of Transportation, Baltimore.

State Roads Commission of Maryland

1930      *Reports of the State Roads Commission of Maryland for the Years 1927, 1928, 1929, and 1930*. State of Maryland, State Roads Commission, Baltimore.

1931-80      Bridge inspection reports. Located in the files of the Office of Bridge Development, Maryland State Highway Administration, Baltimore.

**SURVEYOR INFORMATION**

**Name:**                      Margaret A. Bishop and Michelle M. Lupien

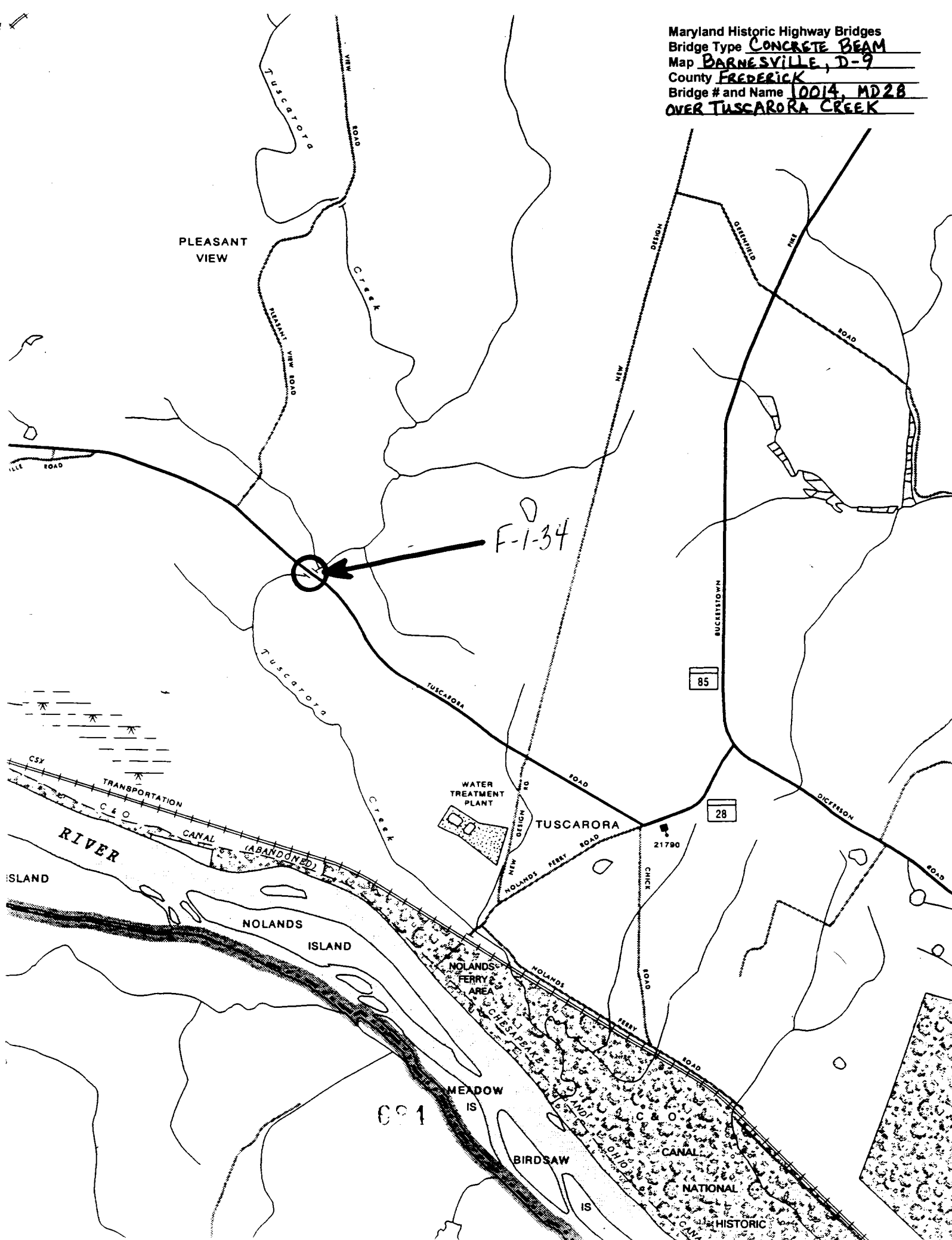
**Date:** 13 May 1996

**Organization:**        KCI Technologies, Inc.

**Telephone:** (717) 691-1340

**Address:**                5001 Louise Dr., Suite 201  
                                 Mechanicsburg, PA 17055

Maryland Historic Highway Bridges  
Bridge Type CONCRETE BEAM  
Map BARNESVILLE, D-9  
County FREDERICK  
Bridge # and Name 10014, MD28  
OVER TUSCARORA CREEK







Inventory # F-1-34

Name 10014-MD 28 OVER TUSCARORA CREEK

County/State FREDERICK COUNTY / MD

Name of Photographer FRANK JULIANO

Date 1195

Location of Negative ~~SHA~~

Description ELEVATION LOOKING NORTH

Number 119 of 369 ~~34~~



Inventory # E-1-34

10014

Name MD 28 OVER TUSCARORA CREEK

County/State FREDERICK COUNTY/MD

Name of Photographer FRANK JULIANO

Date 1/95

Location of Negative ~~SEA~~

Description ELEVATION LOOKING SOUTH

Number <sup>2</sup>28 of <sup>4</sup>~~36~~ 34



Inventory # F-1-34

Name 10014- MD 28 OVER TUSCARORA CREEK

County/State FREDERICK COUNTY MD

Name of Photographer FRANK JULIANO

Date 1/95

Location of Negative SEA

Description APPROACH EAST

Number 3 of 34



Inventory # F-1-34

Name 10014- MD20 OVER TUSCARORA CREEK

County/State FREDERICK COUNTY/MD

Name of Photographer FRANK JULIANO

Date 1/95

Location of Negative ~~611A~~

Description APPROACH WEST

Number 4 of 4

24444 1196 5291030004500